

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

WinDoor, Inc. 7500 Amsterdam Drive Orlando, FL 32832

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "4000 Twin" Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **FEI0011**, titled "Series 4000 Twin SH Impact (LMI) Window", sheets 1 through 9 of 9 dated 07/13/11, with revision A dated 02/14/12, prepared by PTC, Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 11-0815.13 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

MIAMI-DADE COUNTY
APPROVED

J5/24/12

NOA No. 12-0320.17 Expiration Date: November 04, 2015 Approval Date: May 31, 2012 Page 1

WinDoor, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No **FEI0011**, Sheets 1 through 9 of 9, titled "Series 4000 Twin SH Impact (LMI) Window", dated 07/13/11, with revision A dated 02/14/12, prepared by PTC Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per T.AS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
 - 3) Water Resistance Test, per TAS 202-94
 - 4) Large Missile Impact Test, TAS PA 201-94
 - 5) Cyclic Loading Test, per FBC TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with installation diagram of a "Milestone Commercial Series 5000 continuous head and sill single hung double window, marked-up by National Certified Testing Laboratories, Test Report No. **NCTL-210-3584-1**, dated 02/18/09, signed and sealed by Gerard J. Ferrara, P.E.

(Submitted under previous NOA #10-0427.01)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 12/04/09, prepared by PTC, LLC, signed and sealed by Robert James Amoruso, P.E.

(Submitted under previous NOA #11-0815.13)

2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.

Manuel Perez, P.E. roduct Control Examiner NOA No. 12-0320.17

Expiration Date: November 04, 2015 Approval Date: May 31, 2012

WinDoor, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-2007 and FBC-2010, and no financial interest, dated March 13, 2012, signed and sealed by Robert James Amoruso, P.E.
- 2. Laboratory compliance letters for Test Reports No. NCTL-210-3584-1, issued by National Certified Testing Laboratories, dated April 29, 2009, signed and sealed by Gerard J. Ferrara, P.E. (Submitted under previous NOA #10-0427.01)

G. OTHERS

1. Notice of Acceptance No. 11-0815.13, issued to WinDoor, Inc. for their Series "4000 Twin" Aluminum Single Hung Window – L.M.I., approved on 09/29/11 and expiring on 11/04/15.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0320.17

Expiration Date: November 04, 2015 Approval Date: May 31, 2012

WINDOOR Inc. IMPACT SH Twin Window, LMI INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- 1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2007 AND 2010 FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURES STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # NCTL-210-3745-1A (LMI) DATED 04/29/2009 AND ASSOCIATED LABORATORY STAMPED DRAWINGS AND WERE TESTED IN ACCORDANCE WITH CURRENT DADE COUNTY PROTOCOLS.
- 2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

Anchor Type

Carbon Steel

Concrete Screw

Wood or Tapping

Screw (Carbon or

Stainless Steel)

Tapping Screw

(Carbon or Stainless

Steel

Minimum

Concrete

Strength

(psi)

ASTM C90

2000

2000

2000

2700

Substrate

CMU

Filled

(Grouted)

CMU

Concrete

Wood

Frame

Mullion

(Jamb Only)

- 3. WHEN WOOD BUCKS ARE USED, THEY SHALL NOT BE CONSIDERED PART OF THE STRUCTURAL SUBSTRATE REGARDLESS OF THEIR ATTACHMENT TO THE STRUCTURAL SUBSTRATE. WOOD BUCKS SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE, BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER 7. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04. OR ARCHITECT OF RECORD.
- 4. WHEN 1X AND 2X WOOD BUCKS ARE USED AND IN CONTACT WITH CONCRETE AND/OR MASONRY, THE WOOD USED SHALL BE EITHER A PRESERVATIVE TREATED SOUTHERN YELLOW PINE OR A DURABLE WOOD SPECIES IN ACCORDANCE WITH 2007 AND 2010 FBC -BUILDING, SECTION 2326.2. THE WOOD USED MUST HAVE A SPECIFIC GRAVITY OF 0.55 MINIMUM.

Minim um

Edge

Distance

(in)

2 1/2

1 1/2

1 1/2

2 1/2

1 1/2

1 1/2

n/a

Minimum

Embedment

(in)

1 1/4

1 1/4

1 3/4

1 3/4

1 3/4

1 3/4

1 1/2

3 screw thread

embedment pas

nside of mullion's

web.

- 5. AN IMPACT PROTECTIVE SYSTEM (I.E. SHUTTERS, ETC.) IS NOT REQUIRED WITH THESE WINDOWS.
- 6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6 AND 6005-T5.
- 8. DESIGNATIONS "X" AND "O" STANDS FOR THE FOLLOWING: X: OPERABLE SASH, O: FIXED LITE.
- 9. A 1/3 INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THE DESIGN OF THE PRODUCTS SHOWN HEREIN. WIND LOAD DURATION FACTOR (Cd = 1.6) HAS NOT BEEN USED FOR WOOD ANCHOR DESIGN.

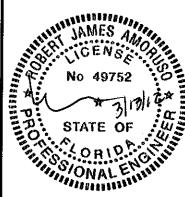
INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON THE ELEVATIONS.
- NOT APPLICABLE.
- 3. ALL INSTALLATION ANCHORS MUST HAVE A CORROSION RESISTANT COATING OR BE MADE OF STAINLESS STEEL.
- 4. SEAL FRAME CORNERS AT SILL-TO-JAMB AND HEAD-TO-JAMB WITH SMALL JOINT SEAM SEALANT, SEE CORNER DETAIL.
- 5. SEAL ALL INSTALLATION ANCHOR HEADS WITH SMALL JOINT SEAM SEALANT DURING INSTALLATION, APPLY SEALANT IN COUNTERSINK BEFORE ANCHOR INSTALLATION AND SEAL ANCHOR HEAD AFTER ANCHOR INSTALLATION.
- 6. THE SPACING OF INSTALLATION ANCHORS DEPICTED IS THE MAXIMUM SPACING TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO MATCH TYPE, SIZE, EDGE DISTANCE AND EMBEDMENT OF THOSE SHOWN IN TABLE 1 FOR RESPECTIVE SUBSTRATE.
- TABLE OF CONTENTS SHEET REV. SHEET DESCRIPTION GENERAL AND INSTALLATION NOTES 2 ANCHOR LAYOUT & DP TABLE 3 LIMITATION TABLES FOR CONCRETE & CMU LIMITATION TABLES FOR WOOD 4 VERTICAL SECTIONS 5 VERTICAL SECTIONS 6 **VERTICAL SECTION & CORNER DETAIL** 7 ---HORIZONTAL SECTIONS 8 COMPONENTS, BOM & GLAZING DETAILS 9

- 7. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING, USE WOOD SCREWS OR TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE THE MINIMUM EMBEDMENT, MINIMUM EDGE DISTANCE AND MINIMUM ANCHOR SEPARATION OF 1 INCH AS SHOWN IN TABLE 1.
- FOR INSTALLATION THROUGH 1X WOOD BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE CONCRETE SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE AS SHOWN IN TABLE 1, FOR 1X WOOD BUCKS, 3/4" EDGE DISTANCE IS ALLOWED. TO PREVENT WOOD BUCKING FROM SPLITTING, DRILL 1/4" DIAMETER HOLE TO ACCOMMODATE ANCHORS.
- 10. FOR INSTALLATION INTO MIAMI-DADE APPROVED MULLION, USE TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS EMBEDMENT PAST INSIDE OF MULLION'S WEB AS SHOWN ON TABLE 1 APPLICABLE ONLY FOR JAMB TO MULLION CONNECTION SHIMS CANNOT BE USED.
- 11. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
- 12. FOR CONCRETE BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 13. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD SOUTHERN YELLOW PINE. MINIMUM SPECIFIC GRAVITY OF 0.55
 - B. CONCRETE MINIMUM COMPRESSIVE STRENGTH SHOWN IN TABLE 1 AND COMPLIES WITH ACI 301.
 - C. MASONRY STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT (DENSITY > 117 PCF), GROUT FILLED PER FLORIDA BUILDING CODE.

UPDATE TO 2010 FBC ORIGINAL ISSUE Ø Robert J. Amoruso, P.E. FL License No. 49752

07/13/11 02/14/12



PTC Product Design Group, LLC PO Box 520775 Longwood, FL 32752-0775 321-690-1788 (P) 321-690-1789 (F) FBPE Cert. of Auth. No. 25935

DRAWING TITLE: Building Code Acceptance No 12-0320.17 Expiration Date Nov. 4.2015

PRODUCT REVISED

Building Code

as complying with the Florida

INCORPORATED

7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481,8400

Fax: 407.481.0505 www.windoorinc.com

	ENERAL AND INST	, ,	
SIZE	DRAWN BY:	DWG NO.	_

FEI0011 DATE: SHEET 07/13/11 10F9

B. All screws will be "flat" head. C. Screw lengths will be sufficient to allow the minimum embedment to be made into the receiving substrate.

A. Other manufacturer's concrete screws may be acceptable if they meet or exceed the allowable shear value of

Table 1 - ANCHOR SCHEDULE

Manufacturer

ITW Buildex Tapcon

ITW Buildex Tapcon with

Advanced Threadform

Technology

⊟co Ultracon

ITW Buildex Tapcon with

Advanced Threadform

Technology

Eco Ultracon

ITW Buildex Tapcon with

Advanced Threadform

Technology

⊟co Ultracon

ANSI B18.6.1 or

ASME B18.6.4

1/4" TS ASME B18.6.4, Type AB

Size

1/4"

1/4"

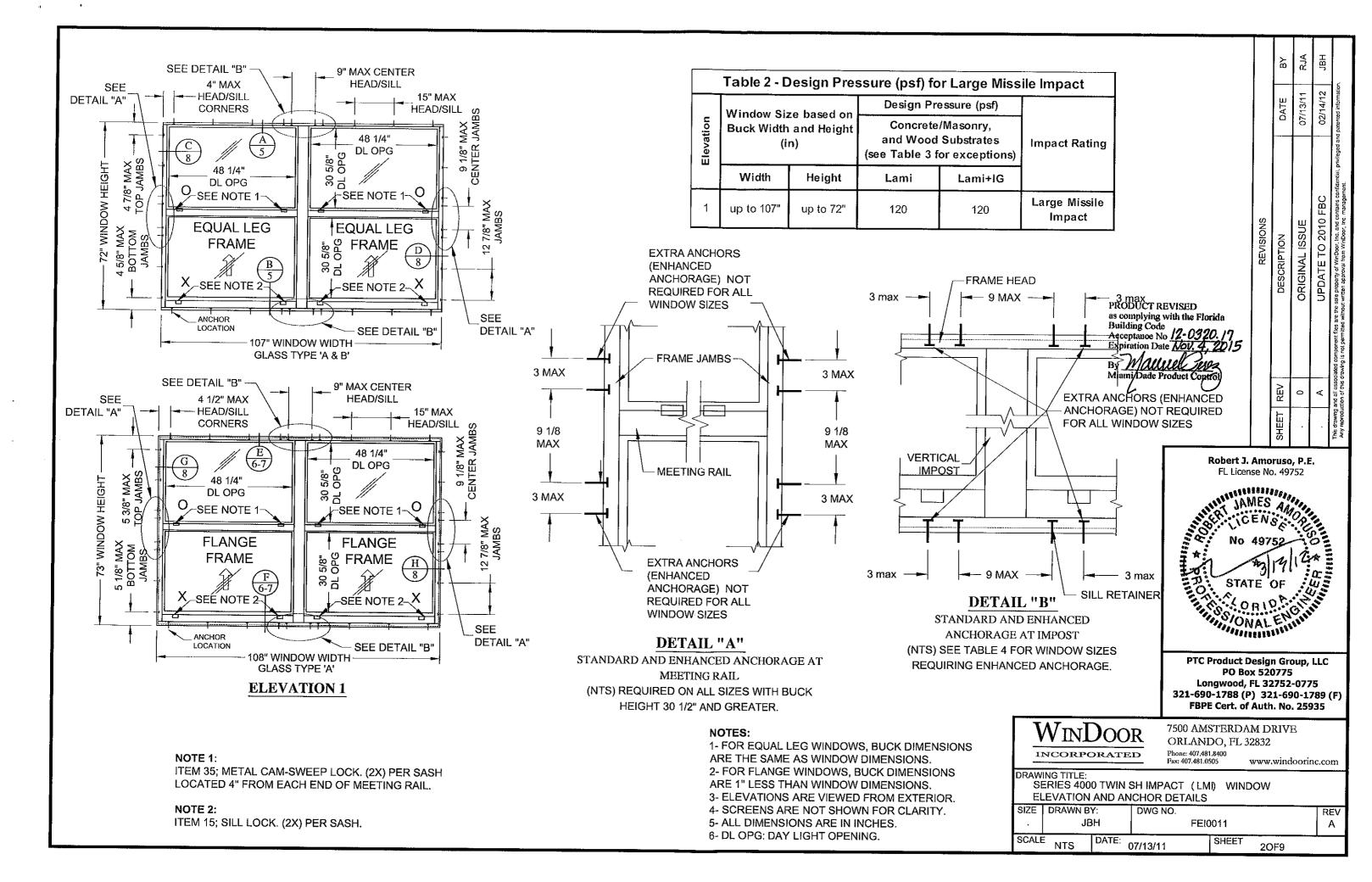
1/4"

1/4"

D. CMU: Concrete Masonry Unit

303 lbs for concrete or grout-filled CMU or 202 lbs for hollow CMU, are installed at a minimum embedment required for that allowable and the installation meets the edge distance and spacing requirements for that anchor at the prescribed shear capacity.

Miami Dade Product Contro



TABLES FOR WINDOWS INSTALLED IN CONCRETE & CMU SUBSTRATES.

TABLES 4A & 4B - WINDOW SIZES REQUIRING ENHANCED ANCHORAGE AT IMPOST.

TABLES 3A & 3B - WINDOW SIZES WITH LIMITATIONS IN DESIGN PRESSURE DUE TO ANCHORAGE.

Concret	e and Fille	d CMU				Holl	ow CMU		
Buck	Size	DP (psf)	Buci	k Siz	е	DP (psf)	Bu	ick Size	DP (psf
BW	вн] " (BW		ВН	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BW	ВН	12. (1001)
107	72	111	107	72		74	95	72	82
107	71	113	107	71		76	95	71	83
107	25 to 62	120	107	62		88	95	62	97
105 1/4	72	112	107	55	1/4	99	95	55 1/4	110
105 1/4	71	114	107	49	5/8	112	95	25 to 49 5/8	120
105 1/4	25 to 62	120	107	43	3/4	120	73	72	98
95	25 to 72	120	107	37	3/8	120	73	71	100
73	25 to 72	120	107	30	1/2	120	73	62	116
60	25 to 72	120	107	25		120	73	25 to 55 1/4	120
52	25 to 72	120	105 1/4	72		75	60	72	116
37 1/4	25 to 72	120	105 1/4	71		77	60	71	118
			105 1/4	62		89	60	62	120
		- [105 1/4	55	1/4	101	60	25 to 55 1/4	120
		[105 1/4	49	5/8	113	52	25 to 72	120
			105 1/4	43	3/4	120	37 1/4	25 to 72	120
		- 1	105 1/4	37	3/8	120			
			105 1/4	30	1/2	120			
			105 1/4	25		120			

Co	ncrete and Filled	СМО			Hollow	CMU			
	Buck Size	DP (psf)	Buck Size		DP (psf)	Buck Size		DP (psf	
BW	вн	1 " [ВW	ВН	1 ""[BW	BH	(pai)	
96	27 1/2 to 71 1/2	120	96	71 1/2	82	80	71 1/2	95	
88	27 1/2 to 71 1/2	120	96	59 1/2	101	80	59 1/2	117	
72	27 1/2 to 71 1/2	120	96	51 1/2	118	80	27 1/2 to 51 1/2	120	
64	27 1/2 to 71 1/2	120	96	47 1/2	120	72	71 1/2	100	
56	27 1/2 to 71 1/2	120	96	43 1/2	120	72	27 1/2 to 59 1/2	120	
48	27 1/2 to 71 1/2	120	96	35 1/2	120	64	71 1/2	111	
			96	30 1/2	120	64	27 1/2 to 59 1/2	120	
		[96	27 1/2	*1 15	56	27 1/2 to 71 1/2	120	
			88	71 1/2	88	48	27 1/2 to 71 1/2	120	
			88	59 1/2	108				
		[88	27 1/2 to 51 1/2	120				

Enha	nced Ancl	norage Req	uired?	En
Bucl	k Size	Concrete & Filled	Hollow	В
BW	8H	CMU	CMU	BW
107	72	Yes	Yes	60
107	71	Yes	Yes	60
107	62	Yes	Yes	60
107	55 1/4	Yes	Yes	60
107	49 5/8	Yes	Yes	60
107	43 3/4	Yes	Yes	60
107	37 3/8	Yes	Yes	60
107	30 1/2	No	Yes	60
107	25	No	Yes	60
105 1/4	72	Yes	Yes	52
105 1/4	71	Yes	Yes	52
105 1/4	62	Yes	Yes	52
105 1/4	55 1/4	Yes	Yes	52
105 1/4	49 5/8	Yes	Yes	52
105 1/4	43 3/4	Yes	Yes	52
105 1/4	37 3/8	Yes	Yes	52
105 1/4	30 1/2	No	Yes	52
105 1/4	25	No	Yes	52
95	72	Yes	Yes	37.25
95	71	Yes	Yes	37.25
95	62	Yes	Yes	37.25
95	55 1/4	Yes	Yes	37.25
95	49 5/8	Yes	Yes	37.25
95	43 3/4	Yes	Yes	37.25
95	37 3/8	No	Yes	37.25
95	30 1/2	No	Yes	37.25
95	25	No	No	37.25
73	72	Yes	Yes	
73	71	Yes	Yes	
73	62	Yes	Yes	
73	55 1/4	Yes	Yes	
73	49 5/8	Yes	Yes	
73	43 3/4	No	Yes	
73	37 3/8	No	Yes	
73	30 1/2	No	No	
73	25	No	No	

Enhanced A	Anchorage	at Impost	Table 4	B - Modula	r Sized Wi			hanced An	chorage at	t Impost -
nced Anch	orage Req	uired?	Enha	nced Anch	orage Req	uired?	Enha	nced Anch	orage Req	uired?
Buck Size Concrete & Filled		11011011		k Size	Concrete & Filled	Hollow	Buck Size		Concrete & Filled	Hollow
BH	СМИ	CIVIO	BW	BH	СМИ	CMU	BW	ВН	СМП	CMU
72	Yes	Yes	96	71 1/2	Yes	Yes	64	71 1/2	Yes	Yes
71	Yes	Yes	96	59 1/2	Yes	Yes	64	59 1/2	Yes	Yes
62	Yes	Yes	96	51 1/2	Yes	Yes	64	51 1/2	Yes	Yes
55 1/4	Yes	Yes	96	47 1/2	Yes	Yes	64	47 1/2	No	Yes
49 5/8	No	Yes	96	43 1/2	Yes	Yes	64	43 1/2	No	Yes
43 3/4	No	Yes	96	35 1/2	No	Yes	64	35 1/2	No	Yes
37 3/8	No	Yes	96	30 1/2	No	Yes	64	30 1/2	No	No
30 1/2	No	No	96	27 1/2	No	No	64	27 1/2	No	No
25	No	No	88	71 1/2	Yes	Yes	56	71 1/2	Yes	Yes
72	Yes	Yes	88	59 1/2	Yes	Yes	56	59 1/2	Yes	Yes
71	Yes	Yes	88	51 1/2	Yes	Yes	56	51 1/2	No	Yes
62	Yes	Yes	88	47 1/2	Yes	Yes	56	47 1/2	No	Yes
55 1/4	No	Yes	88	43 1/2	Yes	Yes	56	43 1/2	No	Yes
49 5/8	No	Yes	88	35 1/2	No	Yes	56	35 1/2	No	No
43 3/4	No	Yes	88	30 1/2	No	Yes	56	30 1/2	No	No
37 3/8	No	No	88	27 1/2	No	No	56	27 1/2	No	No
30 1/2	No	No	80	71 1/2	Yes	Yes	48	71 1/2	Yes	Yes
25	No	No	80	59 1/2	Yes	Yes	48	59 1/2	No	Yes
72	No	Yes	80	51 1/2	Yes	Yes	48	51 1/2	No	Yes
71	No	Yes	80	47 1/2	Yes	Yes	48	47 1/2	No	Yes
	No	Yes	80	43 1/2	No	Yes	48	43 1/2	No	No
	No	Yes	80	1 1	No	Yes	48	35 1/2	No	No
	No	No	80		No	No	48	30 1/2	No	No
		No	ļ	-		No	48	27 1/2	No	No
		No			Yes	Yes				
25	No	No				Yes				
			72	47 1/2	Yes	Yes				
	BH 72 71 62 55 1/4 49 5/8 43 3/4 37 3/8 30 1/2 25 72 71 62 55 1/4 49 5/8 43 3/4 37 3/8 30 1/2 25 72 71 71 71 71 71 71 71 71 71 72 71 71 72 71 72 71 71 72 71 71 72 71 71 72 71 72 71 72 71 72 71 72 71 72 71 72 71 72 72 71 72 72 72 72 72 72 72 72 72 72 72 72 72	BH Concrete & Filled CMU 72	Size Concrete	BH	BH	BH	BH	Brace Concrete Find Fi	Size Concrete Find Fin	Buck Size Concrete Filled CMU CMU Enhanced Anchorage Required? Enhanced Anchora

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0320.17 Expiration Date 100.4, 2015

ORIGINAL ISSUE 0 Robert J. Amoruso, P.E. FL License No. 49752

07/13/11

STATE C.

STATE C.

ORIDA:

OR PTC Product Design Group, LLC PO Box 520775 Longwood, FL 32752-0775 321-690-1788 (P) 321-690-1789 (F) FBPE Cert. of Auth. No. 25935

- REQUAL LEG WINDOWS, BUCK DIMENSIONS
- 1" LESS THAN WINDOW DIMENSIONS.

72

72

72

72

43 1/2

35 1/2

30 1/2

27 1/2

No

No

No

No

Yes

Yes

No

No

- 4- DP: DESIGN PRESSURE

NO	TES:
VU	I EO:

- THE SAME AS WINDOW DIMENSIONS.
- R FLANGE WINDOWS, BUCK DIMENSIONS
- BUCK WIDTH, BH: BUCK HEIGHT
- 5- CMU: CONCRETE MASONRY UNIT

	WinDoor
ı	INCORPORATED

7500 AMSTERDAM DRIVE ORLANDO, FL 32832

DRAWING TITLE:

Phone: 407.481,8400 Fax: 407.481.0505 www.windoorinc.com

			SH IMPACT (LM CONCRETE AN			
SIZE	DRAWN B	Y:	DWG NO.			REV
	JE	3H	FEI FEI	0011		Α
SCALE	NTS	DATE:	07/13/11	SHEET	3OF9	

*	SIZES WITH BUCK HEIGHT (BH) LESS THAN 30 1/2" DO NOT HAVE SPACE FOR ENHANCED	1- FOR
	ANCHORAGE AT THE MEETING RAILS, THEREFORE THE DESIGN PRESSURE (DP) IS	ARE
	LOWER THAN THE NEXT LARGEST WINDOW. AT 30 1/2" BH OR LARGER, WINDOWS ARE	2- FOF
	FABRICATED AND INSTALLED WITH ENHANCED ANCHORAGE AT MEETING RAILS.	ARE
		3- BW:
		. 55

TABLES FOR WINDOWS INSTALLED IN WOOD SUBSTRATES.

TABLES 3C & 3D - WINDOW SIZES WITH LIMITATIONS IN DESIGN PRESSURE DUE TO ANCHORAGE.

Table 3	C - Commo	dity Sized	Windows	in Wood S	ubstrates	
Bucl	k Size	DP (psf)	Buc	DP (psf)		
BW	BH] " '	BW	BH	1 " "	
107	72	55	60	72	86	
107	71	56	60	71	87	
107	62	65	60	62	101	
107	55 1/4	74	60	55 1/4	115	
107	49 5/8	83	60	49 5/8	120	
107	43 3/4	94	60	43 3/4	120	
107	37 3/8	112	60	37 3/8	120	
107	30 1/2	120	60	30 1/2	120	
107	25	* 85	60	25	120	
105 1/4	72	56	52	72	98	
105 1/4	71	57	52	71	99	
105 1/4	62	66	52	62	115	
105 1/4	55 1/4	75	52	55 1/4	120	
105 1/4	49 5/8	84	52	49 5/8	120	
105 1/4	43 3/4	96	52	43 3/4	120	
105 1/4	37 3/8	113	52	37 3/8	120	
105 1/4	30 1/2	120	52	30 1/2	120	
105 1/4	25	* 87	52	25	120	
95	72	61	37.25	72	120	
95	71	62	37.25	71	120	
95	62	72	37,25	62	120	
95	55 1/4	81	37,25	55 1/4	120	
95	49 5/8	91	37.25	49 5/8	120	
95	43 3/4	105	37.25	43 3/4	120	
95	37 3/8	120	37,25	37 3/8	120	
95	30 1/2	120	37.25	30 1/2	120	
95	25	* 96	37.25	25	120	
73	72	73				
73	71	74				

73

73

73

73

73

73

73

62

55 1/4

49 5/8

43 3/4

37 3/8

30 1/2

25

85

97

108

120

120

120

120

Buc	k Size	DP (psf)	Buc	DP (psf	
BW	BH]	₿W	BH	[
96	71 1/2	61	72	71 1/2	74
96	59 1/2	74	72	59 1/2	90
96	51 1/2	87	72	51 1/2	105
96	47 1/2	95	72	47 1/2	115
96	43 1/2	100	72	43 1/2	120
96	35 1/2	120	72	35 1/2	120
96	30 1/2	120	72	30 1/2	120
96	27 1/2	* 87	72	27 1/2	* 117
88	71 1/2	65	64	71 1/2	82
88	59 1/2	80	64	59 1/2	100
88	51 1/2	94	64	51 1/2	117
88	47 1/2	102	64	47 1/2	120
88	43 1/2	112	64	43 1/2	120
88	35 1/2	120	64	35 1/2	111
88	30 1/2	120	64	30 1/2	120
88	27 1/2	* 95	64	27 1/2	120
80	71 1/2	70	56	71 1/2	92
80	59 1/2	86	56	59 1/2	112
80	51 1/2	101	56	51 1/2	120
80	47 1/2	111	56	47 1/2	120
80	43 1/2	120	56	43 1/2	120
80	35 1/2	120	56	35 1/2	120
80	30 1/2	120	56	30 1/2	120
80	27 1/2	★ 105	56	27 1/2	120

* SIZES WITH BUCK HEIGHT (BH) LESS THAN 30 1/2" DO NOT HAVE SPACE FOR ENHANCED ANCHORAGE AT THE MEETING RAILS, THEREFORE THE DESIGN PRESSURE (DP) IS LOWER THAN THE NEXT LARGEST WINDOW. AT 30 1/2" BH OR LARGER, WINDOWS ARE FABRICATED AND INSTALLED WITH ENHANCED ANCHORAGE AT MEETING RAILS.

TABLES 4C & 4D - WINDOW SIZES REQUIRING ENHANCED ANCHORAGE AT IMPOST.

			orage at In nced Anch				
Buck Size			No. 14 WS	Buc	k Size	No. 14	
BW	Γ	ВН	l ws	BW	ВН	ws	
107	72		Yes	60	72	Yes	
107	71		Yes	60	71	Yes	
107	62		Yes	60	62	Yes	
107	55	1/4	Yes	60	55 1/4	Yes	
107	49	5/8	Yes	60	49 5/8	Yes	
107	43	3/4	Yes	60	43 3/4	Yes	
107	37	3/8	Yes	60	37 3/8	Yes	
107	30	1/2	Yes	60	30 1/2	Yes	
107	25		Yes	60	25	No	
105 1/4	72		Yes	52	72	Yes	
105 1/4	71		Yes	52	71	Yes	
105 1/4	62		Yes	52	62	Yes	
105 1/4	55	1/4	Yes	52	55 1/4	Yes	
105 1/4	49	5/8	Yes	52	49 5/8	Yes	
105 1/4	43	3/4	Yes	52	43 3/4	Yes	
105 1/4	37	3/8	Yes	52	37 3/8	Yes	
105 1/4	30	1/2	Yes .	52	30 1/2	No	
105 1/4	25		Yes	52	25	No	
95	72		Yes	37,25	72	Yes	
95	71		Yes	37.25	71	Yes	
95	62		Yes	37.25	62	Yes	
95	55	1/4	Yes	37.25	55 1/4	Yes	
95	49	5/8	Yes	37.25	49 5/8	Yes	
95	43	3/4	Yes	37.25	43 3/4	Yes	
95	37	3/8	Yes	37.25	37 3/8	No	
95	30	1/2	Yes	37.25	30 1/2	No	
95	25		Yes	37.25	25	No	
73	72		Yes				
73	71		Yes				
73	62		Yes				
73	55	1/4	Yes				
73	49	5/8	Yes				
73	43	3/4	Yes				
		-					

	Ennar	nced Anch	rage Rec	uneur		
Buck	(Size	No. 14 WS	Buc	Buck Size		
BW	BH	VVO	BW	ВН	ws	
96	71 1/2	Yes	64	71 1/2	Yes	
96	59 1/2	Yes	64	59 1/2	Yes	
96	51 1/2	Yes	64	51 1/2	Yes	
96	47 1/2	Yes	64	47 1/2	Yes	
96	43 1/2	Yes	64	43 1/2	Yes	
96	35 1/2	Yes	64	35 1/2	Yes	
96	30 1/2	Yes	64	30 1/2	Yes	
96	27 1/2	Yes	64	27 1/2	Yes	
88	71 1/2	Yes	56	71 1/2	Yes	
88	59 1/2	Yes	56	59 1/2	Yes	
88	51 1/2	Yes	56	51 1/2	Yes	
88	47 1/2	Yes	56	47 1/2	Yes	
88	43 1/2	Yes	56	43 1/2	Yes	
88	35 1/2	Yes	56	35 1/2	Yes	
88	30 1/2	Yes	56	30 1/2	Yes	
88	27 1/2	Yes	56	27 1/2	No	
80	71 1/2	Yes	48	71 1/2	Yes	
80	59 1/2	Yes	48	59 1/2	Yes	
80	51 1/2	Yes	48	51 1/2	Yes	
80	47 1/2	Yes	48	47 1/2	Yes	
80	43 1/2	Yes	48	43 1/2	Yes	
80	35 1/2	Yes	48	35 1/2	Yes	
80	30 1/2	Yes	48	30 1/2	No	
80	27 1/2	Yes	48	27 1/2	No	
72	71 1/2	Yes				
72	59 1/2	Yes	ı			
72	51 1/2	Yes				
72	47 1/2	Yes				
72	43 1/2	Yes	- anticyp	REVISED		
72	35 1/2	Yes	RODUCI - complyit	REVISED ig with the F	lorida	
72	30 1/2	Voe th	milding Co	rda .	19 (100	
72	27 1/2	Voe	cceptance	No 12 - 02 Date 101 - 1	KYHIL	

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No. 49752

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ASA HBL

07/13/11

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PTC Product Design Group, LLC PO Box 520775 Longwood, FL 32752-0775 321-690-1788 (P) 321-690-1789 (F) FBPE Cert. of Auth. No. 25935

NOTES:

Yes

Yes

Yes

73

73

73

37 3/8

30 1/2

25

- 1- FOR EQUAL LEG WINDOWS, BUCK DIMENSIONS ARE THE SAME AS WINDOW DIMENSIONS.
- 2- FOR FLANGE WINDOWS, BUCK DIMENSIONS ARE 1" LESS THAN WINDOW DIMENSIONS.
- 3- BW: BUCK WIDTH, BH: BUCK HEIGHT
- 4- DP: DESIGN PRESSURE
- 5- CMU: CONCRETE MASONRY UNIT

WinDoor
INCORPORATED

ORLANDO, FL 32832 Phone: 407.481,8400

Phone: 407.481.8400
Fax: 407.481.0505 www.windoorinc.com

7500 AMSTERDAM DRIVE

DRAWING TITLE:
SERIES 4000 TWIN SH IMPACT (LMI) WINDOW
ANCHOR LIMITS IN WOOD SUBSTRATES

	10110112			30174	1120		
SIZE	DRAWN E	3Y:	DWG NO.				REV
	J	BH	FEI0011			A	
CAL	NTS	DATE: (07/13/11		SHEET	40F9	

